

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listing of claims in the application.

1. (currently amended) ~~In combination with a powered opto-electronics unit within which optical signals are generated for determination of smoke density at a test location spaced therefrom a~~ A smoke detector system comprising; :

a powered opto-electronics unit within which optical signals are generated for determination of smoke density;

a passive sensor remotely located from the opto-electronics unit, said passive sensor including a housing having openings and enclosing an air gap exposed through said openings at said test location to smoke;

a fiber optics cable interconnecting said opto-electronics unit and said passive sensor;

collimating lens means mounted within the housing at one axial end thereof and connected to the fiber optics cable for transmission of said generated optical signals into the housing confined to the air gap along an optical axis longitudinally centered in said passive sensor; and,

focusing mirror means mounted within the housing at an opposite axial end of the housing for reflection of the optical signals along said optical axis, through the air gap and the lens means and into the fiber cable to be returned to the opto-electronics unit.

2.. (currently amended) The combination system as defined in claim 1, wherein